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Attorne ocket No. 291958162US

(P98-0001)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RE APPLICATION OF: Thomas L. Ritzdorf et al.

press Mail Label <u>EV139299685US</u>

LICATION NO.:

09/018,783

February 4, 1998

FOR: METHOD FOR FILLING RECESSED MICRO-STRUCTURES WITH METALLIZATION IN THE PRODUCTION OF A MICROELECTRONIC DEVICE

EXAMINER: Thomas J. Magee

ART UNIT:

2811

CONF. NO: 1242

TECHHOLOGY CENTER 2800

## **Amendment in Response to Restriction Requirement**

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The present communication responds to the Office Action dated 21 November 2002 in the above-identified application. Please amend the application to read as follows. The attached Appendix presents a marked-up version of the changes made to the claims by the current amendment.

## In the Claims

A method for filling recessed microstructures at a surface of a semiconductor workpiece with copper metal comprising:

depositing copper into recessed micro-structures using an electrochemical process generating copper grains that are sufficiently small so as to substantially fill the recessed microstructures; and

subjecting the surface of the semiconductor workpiece with the deposited copper to an elevated temperature annealing process at a temperature below about 100 degrees Celsius for a time period that is sufficient to increase the grain size of the deposited copper.